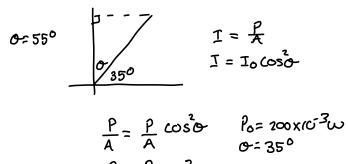
८७ : ४६१० Taylos Lamechea P: 26,58 Dr. Middleton PHYS 132 HW 4-11-17 ch. 34

Problems 34.9.26

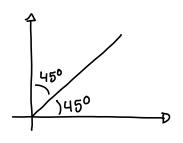


$$\frac{P}{A} = \frac{P}{A} \cos^2 \sigma \qquad P_0 = 200 \times 10^{-3} \text{ M}$$

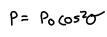
$$P_1 = P_0 \cos^2 \sigma$$

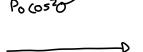


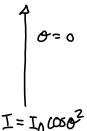
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$$\frac{P}{A} = \frac{P_0}{A_0} \cos^2 O$$







$$I = I_0 \cos^2 I = \frac{1}{2}$$

I3 = 18 W/M2

## Conceptual

## 34.CQ.8

- a.) If the amplitude is doubled, the intensity (4x) is quadrapled.
- b.) If the amplitude is doubled, the intensity (4x) is quadrapled.
- C) The intensity will be quadrupled if both (4x) are duabled.
- d.) The intensity is not dependent on frequency. (same)
  The same.

## 34.CQ.10